II. AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions, and listings, of claims in the application:

1. (Currently Amended) A computer-implemented method for resolving prerequisites for client devices in an Open Service Gateway Initiative (OSGi) framework, comprising:

determining, on a server, prerequisites for an OSGi bundle to be loaded on a client device, the prerequisites including a set of all OSGi bundles that are necessary for utilizing the OSGi bundle;

communicating a list of the prerequisites from the server to the client device;

receiving a response from the client device, wherein the response identifies any resource limitations of the client device <u>determined by the client device</u> based on <u>a comparison of the list</u> of the prerequisites and current resources of the client device; and

resolving the prerequisites by identifying a final set OSGi bundles on the server that fulfills the prerequisites within the resource limitations of the client device.

- 2. (Original) The method of claim 1, wherein the method is performed recursively until the prerequisites are completely resolved.
- 3. (Original) The method of claim 1, further comprising loading the final set of OSGi bundles on the client device if the prerequisites are completely resolved.

- 4. (Original) The method of claim 3, wherein the loading comprises the server instructing the client device to load the final set of OSGi bundles in a particular order.
- 5. (Original) The method of claim 1, wherein the prerequisites comprise at least one item selected from the group consisting of a service, a package and a computer resource needed by client device.
- 6. (Original) The method of claim 1, further comprising caching information derived from the response on the server.
- 7. (Original) The method of claim 1, wherein the method is applied in the presence of a low bandwidth or high cost connection between the server and the client device.
- 8. (Original) The method of claim 1, wherein the final set of OSGi bundles include OSGi bundles that are identified from a repository accessed by the server.
- 9. (Original) The method of claim 1, further comprising:

receiving the prerequisites on the client device;

determining whether the client device has the prerequisites, wherein any of the prerequisites that the client device does not have represent the resource limitations; and sending the response to the server, wherein the response includes the resource limitations.

10. (Currently Amended) A computer-implemented method for recursively resolving prerequisites for client devices in an Open Service Gateway Initiative (OSGi) framework, comprising:

determining, on a server, prerequisites for an OSGi bundle to be loaded on a client device, the prerequisites including a set of all OSGi bundles that are necessary for utilizing the OSGi bundle;

communicating a list of the prerequisites from the server to the client device;

receiving a response from the client device, wherein the response identifies any resource limitations of the client device <u>determined by the client device</u> based on <u>a comparison of the list</u> <u>of</u> the prerequisites <u>and current resources of the client device</u>;

caching information derived from the response on the server; and resolving the prerequisites by recursively identifying a final set that fulfills the prerequisites within the resource limitations of the client device.

- 11. (Original) The method of claim 10, further comprising loading at the final set of OSGi bundles on the client device when the prerequisites are completely resolved.
- 12. (Original) The method of claim 11, wherein the loading comprises the server instructing the client device to load the final set of OSGi bundles in a particular order.

- 13. (Original) The method of claim 10, wherein the prerequisites comprise at least one item selected from the group consisting of a service, a package and a computer resource needed by client device.
- 14. (Original) The method of claim 10, wherein the method is applied in the presence of a low bandwidth or high cost connection between the server and the client device.
- 15. (Original) The method of claim 10, further comprising:

receiving the prerequisites on the client device;

determining whether the client device has the prerequisites, wherein any of the prerequisites that the client device does not have represent the resource limitations; and sending the response to the server, wherein the response includes the resource limitations.

16. (Currently Amended) A computerized system for resolving prerequisites for clients devices in an Open Service Gateway Initiative (OSGi) framework, comprising:

a prerequisite computation system for determining, on a server, prerequisites for an OSGi bundle to be loaded on a client device, the prerequisites including a set of all OSGi bundles that are necessary for utilizing the OSGi bundle;

a communication system for communicating <u>a list of</u> the prerequisites from the server to the client device, and for receiving a response from the client device, wherein the response identifies any resource limitations of the client device <u>determined by the client device</u> based on <u>a</u> comparison of the list of the prerequisites and current resources of the client device; and

a prerequisite resolution system for resolving the prerequisites by identifying a final set of OSGi bundles on the server that fulfills the prerequisites within the resource limitations of the client device.

- 17. (Original) The system of claim 16, wherein the prerequisite resolution system recursively resolves the prerequisites.
- 18. (Original) The system of claim 16, further comprising a bundle loading system for loading the final set of OSGi bundles on the client device if the prerequisites are completely resolved.
- 19. (Original) The system of claim 18, wherein the bundle loading system comprises an instruction passing system for instructing the client device to load the final set of OSGi bundles in a particular order.
- 20. (Original) The system of claim 16, wherein the prerequisites comprise at least one item selected from the group consisting of a service, a package and a computer resource needed by client device.
- 21. (Original) The system of claim 16, further comprising a response caching system for caching information derived from the response on the server.

- 22. (Original) The system of claim 16, wherein the final set of OSGi bundles includes OSGi bundles that are identified from a repository accessed by the server.
- 23. (Original) The system of claim 16, further comprising:

an analysis system for determining whether the client has the prerequisites, wherein any prerequisites that the client device does not have are identified as the resource limitations; and a response system for sending the response from the client device to the server.

- 24. (Original) The system of claim 16, wherein the system uses SyncML DM protocol for communication between the client device and the server
- 25. (Currently Amended) A program product stored on a recordable medium <u>and executed by a computer</u> for resolving prerequisites for clients devices in an Open Service Gateway Initiative (OSGi) framework, comprising:

program code for determining, on a server, prerequisites for an OSGi bundle to be loaded on a client device, the prerequisites including a set of all OSGi bundles that are necessary for utilizing the OSGi bundle;

program code for communicating <u>a list of</u> the prerequisites from the server to the client device, and for receiving a response from the client device, wherein the response identifies any resource limitations of the client device <u>determined by the client device</u> based on <u>a comparison of the list of</u> the prerequisites <u>and current resources of the client device</u>; and

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program code for resolving the prerequisites by identifying a final set of OSGi bundles on the server that fulfills the prerequisites within the resource limitations of the client device.

- 26. (Original) The program product of claim 25, wherein the program code for resolving recursively resolves the prerequisites.
- 27. (Original) The program product of claim 25, further comprising program code for loading the final set of OSGi bundles on the client device if the prerequisites are completely resolved.
- 28. (Original) The program product of claim 27, wherein the program code for loading comprises program code for instructing the client device to load the final set of OSGi bundles in a particular order.
- 29. (Original) The program product of claim 25, wherein the prerequisites comprise at least one item selected from the group consisting of a service, a package and a computer resource needed by client device.
- 30. (Original) The program product of claim 25, further comprising program code for eaching the information derived from response on the server.
- 31. (Original) The program product of claim 25, wherein the final set of OSGi bundles includes bundles that are identified from a repository accessed by the server.

32. (Original) The program product of claim 25, further comprising:

program code for determining whether the client has the prerequisites, wherein any prerequisites that the client device does not have are identified as the resource limitations; and program code for sending the response from the client device to the server.